

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Loyd E. East, Jr., et al	)	
		)	Art Unit: Unknown
Serial No.:	Unknown	)	
		)	
Filed:	Concurrently Herewith	)	Examiner: Unknown
		)	
For:	Method of Optimizing	)	
	Production of Gas From	)	
	Vertical Wells in Coal	)	
	Seams	)	

INFORMATION DISCLOSURE STATEMENT

COMMISSIONER FOR PATENTS  
Alexandria, VA 22313-1450

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

U. S. PATENTS

U.S. Patent Number 5,499,678 issued 03/19/96 to Jim B. Surjaatmadja, et al;

U.S. Patent Number 5,765,642 issued 06/16/98 to Jim B. Surjaatmadja;

U.S. Patent Number 6,280,000 issued 08/28/01 to Joseph A. Zupanick; and

U.S. Patent Number 6,604,580 issued 08/12/03 to Joseph A. Zupanick, et al.

OTHER MATERIAL

U.S. Serial No. \_\_\_\_\_, entitled "Methods for Geomechanical Fracture Modeling" by  
Mohamed Y. Soliman, et al.

Copies of the aforementioned references and Form PTO-1449 are submitted herewith.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Robert A. Kent". The signature is fluid and cursive, with a large initial "R" and a distinct "K".

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PTO-1449  <b>Information Disclosure Citation in an Application</b>	Application No.	Applicant(s)	
	Docket Number  HES 2003-IP-011867	Group Art Unit	Filing Date

Loyd East, Mohamed Soliman,  
S. Dana Weida, Jim B. Surjaatmadja

### U.S. PATENT DOCUMENTS

		DOCUMENT NO.	ISSUE/ PUB. DATE	NAME	CLASS	SUBCLASS	FILING DATE
		5,499,678	03/19/96	Surjaatmadja <i>et al.</i>	166	298	08/02/1994
		5,765,642	06/16/98	Surjaatmadja	166	297	12/23/1996
		6,280,000 B1	08/28/01	Zupanick	299	12	11/20/1998
		6,604,580 B2	08/12/03	Zupanick <i>et al.</i>	166	245	04/15/2002

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No

### NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	
		U.S. Serial No. _____, entitled "Methods for Geomechanical Fracture Modeling" by Mohamed Y. Soliman, et al.	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.